

1. What is the frequency of the microwave dishes?  
Primarily 6 Gig, a few may be 11 gig
2. Will these dishes have radomes?  
YES
3. What are the line sizes for all antennas?  
LMR 600
4. What type of antenna mounts are preferred for the 21' radio antennas? 3' or 6' sidearms?  
3 Foot
5. Are any mounts to be supplied with the towers? If so, are they to be mounted at the time the tower is erected?  
No. Microwave and VHF radio vendors are required to supply the mounts
6. Paragraph 2.4.e states that all tower foundations (except Flying J) are to be designed and constructed for a 150' tower. Are these towers to be designed to be extended to 150'? If so, does the antenna loading move up accordingly or is there a separate antenna load to be considered?  
Only VHF antennas will move or be added if the tower is extended in the future.
7. Paragraph 2.3.C.iii calls for step bolts, or a ladder as an option on the leg with step bolts to the top, but 2.5.b calls for a climbing ladder with anti-climb device. If step bolts are provided is an anti-climb device required?  
No.
8. Paragraph 2.10 states that electrical service from meter base to the shelter and generator is required. Who is responsible for the electrical service up to the meter base?  
For the purposes of this bid, the power to the meter base is outside the scope of the bid and the responsibility of the IM Project.

9. What is the distance from the meter base to the equipment shelter and generator?  
On average, the meter base may be 25-50 feet from the shelter, some meters may be installed on the shelter however. This is site specific and dependant on the power company and schedules to extend the power line.

10. The supplementary general conditions contain changes to the general conditions but there are a number of instances where the paragraph numbers don't match. As an example, the supplementary shows paragraph 1.5.1 to be deleted in its entirety yet this paragraph is not shown in the general conditions. Please advise.

General Conditions and Supplemental General Conditions are generic forms developed by the State of Montana. Instructions to delete a nonexistent paragraph do not affect the project requirements. Contractors with concerns about differences between the two documents that will affect contractual requirements or specifications need to submit additional questions regarding specific sections or actions.

11. The counties listed for the 9 sites have a variety of minimum wind speed values per the EIA-F standard. They range from 70 to 80 mph, fastest-mile Basic Wind Speeds. I see in section 2.2 that the towers have "the possibility of 1" of ice or more on all surfaces with a 90 Mph wind speed or higher".

Does this mean we should use 90 mph as the BWS per the EIA-F Standard? Should we use 1" radial ice at full wind (ex. 90 mph), or use the EIA-F criteria of applying ice with 75% wind load?

All Towers will be designed for 100 mph wind with 1" radial ice.

12. Per section 2.3, are the 10' dishes called out standard parabolic HP's, standard with radomes, or grid antennas?

10' standard with radomes.

13. 2.4 (e) states. "All tower foundations (except Flying J) to be designed and constructed for a 150' tower". Does this mean that towers shorter than 150' should have the same member sizes, base width, and anchor bolts sizes as the lower sections of the 150' tower so that they can be extended to 150' in the future?

All towers will be designed and constructed so they maybe extended to 150, with the exception of Flying J which requires 120' tower with no future extension planned.

Clarification/Additional Information -

In Section 4.0 Bid Proposal Section, the state indicated the anticipated soil type at each location. However, core samples have not been completed to verify the information. The notation for each site indicates whether the state or the contractor is responsible for obtaining a core sample to determine actual soil type specific to each site.

The term "solid rock" used in the bid document indicates that in the opinion of the state and is an indicator that the site is not normal soil but mostly rock and is usually fractured.

In addition, contractors may want to visit the individual sites to develop a more comprehensive bid. To access sites, contractors must contact the following local representatives -

Prefix is (406) for all numbers.

**Beaverhead**

Bob McWilliams bmcwilliams@co.beaverhead.mt.us

<<mailto:bmcwilliams@co.beaverhead.mt.us>> 683-3754 cell 660-0191

**Flying J**

Vince Kolar 454-6900 cell 788-6900 des@co.cascade.mt.us  
<<mailto:des@co.cascade.mt.us>>

**Judith Peak**

Dave Green, Montana Department of Transportation, 406-538-1305, dagreen@mt.gov  
*Will need snowmobile to access site.*

**Bozeman EOC**

Jason Shrauger jshrauger@bozeman.net <<mailto:jshrauger@bozeman.net>>  
582-2350 cell 581-0015

**South Mocassin**

Dorothy Gremaux, 911 Center Manager (406) 535-1800 dgremaux@ci.lewistown.mt.us  
<<mailto:dgremaux@ci.lewistown.mt.us>>

**Sullivan Hill**

Roger Smith 444-4274 rsmith@mt.gov  
Charlie Larson 841-7001 charlesl@mt.gov  
*Will need 4X4 vehicle to access site.*

Where local officials are unavailable or cannot be contacted, please contact:

John Horn, 406 324-3106

All other terms and conditions remain unchanged.

BY:

John Horn, Contracting Officer  
Montana Dept of Military Affairs

DATE: March 1, 2007